The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	09/689,992C
Source:	1FW16
Date Processed by STIC:	11/10/04

ENTERED



IFW16

PATENT APPLICATION: US/09/689,992C

DATE: 11/10/2004 TIME: 15:41:19

Input Set : A:\seqlist corr.txt

Output Set: N:\CRF4\11102004\1689992C.raw

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3 <110> APPLICANT: Mello, Craig C.
        Tabara, Hiroaki
 4
         Grishok, Alla
 5
        Fire, Andrew
 8 <120> TITLE OF INVENTION: RNA INTERFERENCE PATHWAY GENES AS TOOLS FOR TARGETED GENETIC
        INTERFERENCE
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11 <130> FILE REFERENCE: UMG-052
13 <140> CURRENT APPLICATION NUMBER: US 09/689,992C
14 <141> CURRENT FILING DATE: 2000-10-13
16 <150> PRIOR APPLICATION NUMBER: US 60/193,218
17 <151> PRIOR FILING DATE: 2000-03-30
19 <150> PRIOR APPLICATION NUMBER: US 60/159,776
20 <151> PRIOR FILING DATE: 1999-10-15
22 <160> NUMBER OF SEQ ID NOS: 14
24 <170> SOFTWARE: FastSEQ for Windows Version 4.0
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 3719
28 <212> TYPE: DNA
29 <213> ORGANISM: Caenorhabditis elegans
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33 gtcattctct cgatccggta tgatcaatta ttagcagcta taagatatat aagtttgata
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                                                                        180
34 ttaatattat aggagatgaa atggcttgcg aggcccactg gtaaatgcga cggcaaattc
                                                                        240
35 tatgagaaga aagtacttct tttggtaaat tggttcaagt tctccagcaa aatttacgat
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36 cgggaatact acgagtatga agtgaaaatg acaaaggaag tattgaatag aaaaccagga
37 aaacetttee caaaaaaqae aqaaatteea atqtaaqtge ttgtaaatta gteaaaacta
                                                                        360
38 attttatttt tcagtcccga tcgtgcaaaa ctcttctggc aacatcttcg gcatgagaag
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39 aagcagacag attttattct cgaagactat gtttttgatg aaaaggacac tgtttatagt
40 gtttgtcgac tgaacactgt cacatcaaaa atgctggttt cggagaaagt agtaaaaaaag
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41 gattcggaga aaaaagatga aaaggatttg gagaaaaaaa tcttatacac aatgatactt
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42 acctatcgta aaaaatttca cctgaacttt agtcgagaaa atccggaaaa agacgaagaa
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43 gegaategga gttacaaatt eetgaaggtt tatgaaaaac aegeattata acaaacaaaa
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44 ttagetttea gaatgttatg acceagaaag ttegetaege geettttgtg aacgaggaga
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45 ttaaagtgtg agttgcaata ataataataa taatcacctc aactcattta tatattttaa
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46 gacaattege gaaaaatttt gtgtaegata ataatteaat tetgegagtt cetgaategt
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47 ttcacgatcc aaacagattc gaacaatcat tagaagtagc accaagaatc gaagcatggt
48 ttggaattta cattggaatc aaagaattgt tcgatggtga acctgtgctc aattttgcaa
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49 gtaagtttga gaaactgcga taaaaaatca tgtgattttt gttgaagttg tcgataaact
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50 attotacaat gcaccgaaaa tgtctcttct ggattatett etectaattg tegaccecca
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51 gtcgtgtaac gatgatgtac gaaaagatct taaaacaaaa ctgatggcgg gaaaaatgac
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52 aatcagacaa geegegege caagaatteg acaattattg gaaaatttga agetgaaatg
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53 cgcagaagtt tgggataacg aaatgttagt ttaaattatt caaacaatta atatacaaat
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54 tgattttcag gtcgagattg acagaacgac atctgacatt tctagatttg tgcgaggaaa

DATE: 11/10/2004 TIME: 15:41:19 PATENT APPLICATION: US/09/689,992C

Input Set : A:\seqlist corr.txt

Output Set: N:\CRF4\11102004\I689992C.raw

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57 cactagtcaa agttaaaagt ggagcaaaag aatacgctgt accaatggaa catcttgaag
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58 ttcatgagaa gccacaaaga tacaagaatc gaattgatct ggtgatgcaa gacaagtttc
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                                                                       1680
59 taaaqcqaqc tacacqaaaa cctcacqact acaaaqaaaa taccctaaaa atgctgaaag
60 aattggatti ctcttctgaa gagctaaatt ttgttgaaag atttggatta tgctccaaac
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61 ttcagatgat cgaatgtcca ggaaaggttt tgaaagagcc aatgcttgtg aatagtgtaa
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62 atgaacaaat taaaatgaca ccagtgattc gtggatttca agaaaaacaa ttgaatgtgg
                                                                       1860
                                                                       1920
63 ttcccgaaaa agaactttgc tgtgctgttt ttgtagtcaa cgaaacagcg ggaaatccat
64 gcttagaaga gaacgacgtt gtgtaagtgt tttctacgta gattattccg aaatattttc
65 agtaagttet acaccgaact aattggtggt tgcaagttee gtggaataeg aattggtgee
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66 aatgaaaaca gaggagcgca atctattatg tacgacgcga cgaaaaatga atatgccgta
                                                                       2100
67 agtttcagaa aattgaaagt ttttaaatat catatttaca gttctacaaa aattgtacac
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68 taaataccgg aatcggtaga tttgaaatag ccgcaacaga agcgaagaat atgtttgaac
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69 gtcttcccga taaagaacaa aaagtcttaa tgttcattat catttccaaa cgacaactga
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                                                                       2340
70 atgcttacgg ttttgtgaaa cattattgcg atcacaccat cggtgtagct aatcagcata
71 ttacttctga aacagtcaca aaagctttgg catcactaag gcacgagaaa ggatcaaaac
                                                                       2400
72 gaatttteta teaaattgea ttgaaaatea aegegaaatt aggaggtatt aaceaggage
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73 ttgactggtc agaaattgca gaaatatcac cagaagaaaa agaaagacgg aaaacaatgc
74 cattaactat gtatgttgga attgatgtaa ctcatccaac ctcctacagt ggaattgatt
75 attctatage ggetgtagta gegagtatea atecaggtgg aactatetat egaaatatga
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76 ttgtgactca agaagaatgt cgtcccggtg agcgtgcagt ggctcatgga cgggaaagaa
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79 aatcgagcac cagcgcatat tgtagtctat cgagacggag ttagcgattc ggagatgcta
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80 cqtqttaqtc atgatgagct tcgatcttta aaaagcgaag taaaacaatt catgtcggaa
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81 cgggatggag aagatecaga gecgaagtae aegtteattg tgatteagaa aagaeacaat
82 acacgattgc ttcgaagaat ggaaaaagat aagccagtgg tcaataaaga tcttactcct
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83 gctgaaacag atgtcgctgt tgctgctgtt aaacaatggg aggaggatat gaaagaaagc
84 aaagaaactg gaattgtgaa cccatcatcc ggaacaactg tggataaact tatcgtttcg
85 aaatacaaat togattitti ottggcatci catcatggtg toottggtac atotogtoca
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86 qqacattaca ctgttatgta tgacgataaa ggaatgagcc aagatgaagt ctatgtaagc
                                                                       3300
87 gttttgaata gcagttagcg attttaggat tttgtaatcc gcatatagtt attataaaaa
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88 aatqtttcag aaaatgacct acggacttgc ttttctctct gctagatgtc gaaaacccat
                                                                       3420
89 ctcgttgcct gttccggttc attatgctca tttatcatgt gaaaaagcga aagagcttta
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90 togaacttac aaggaacatt acatoggtga ctatgcacag ccacggactc gacacgaaat
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91 ggaacatttt ctccaaacta acgtgaagta ccctggaatg tcgttcgcat aacattttgc
92 aaaagtgtcg cccgtttcaa tcaaattttt caattgtaga tattgtactt acttttttt
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97 <212> TYPE: DNA
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102 <222> LOCATION: (21) ... (3080)
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106
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PATENT APPLICATION: US/09/689,992C

DATE: 11/10/2004 TIME: 15:41:19

Input Set : A:\seqlist corr.txt

Output Set: N:\CRF4\11102004\1689992C.raw

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				His													•
111		- 2		15			-		20			-		25			
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114	Thr	Glv	Lys	Cys	Asp	Gly	Lys	Phe	Tyr	Glu	Lys	Lys	Val	Leu	Leu	Leu	
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				Phe													
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121	qaq	tat	qaa	gtg	aaa	atg	aca	aag	gaa	gta	ttg	aat	aga	aaa	cca	gga	245
122	Glu	Tyr	Ğlu	Val	Lys	Met	Thr	Lys	Glu	Val	Leu	Asn	Arg	Lys	Pro	Gly	
123	60	-				65					70					75	
125	aaa	cct	ttc	cca	aaa	aag	aca	gaa	att	cca	att	CCC	gat	cgt	gca	aaa	293
126	Lys	Pro	Phe	Pro	Lys	Lys	Thr	Glu	Ile	Pro	Ile	Pro	Asp	Arg	Ala	Lys	
127					80					85					90		
129	ctc	ttc	tgg	caa	cat	ctt	cgg	cat	gag	aag	aag	cag	aca	gat	ttt	att	341
130	Leu	Phe	Trp	Gln	His	Leu	Arg	His	Glu	Lys	Lys	Gln	Thr	Asp	Phe	Ile	
131				95				*	100					105			
133	ctc	gaa	gać	tat	gtt	ttt	gat	gaa	aag	gac	act	gtt	tat	agt	gtt	tgt	389
134	Leu	Glu	Asp	Tyr	Val	Phe	Asp	Glu	Lys	Asp	Thr	Val		Ser	Val	Cys	
135			110					115					120				
137	cga	ctg	aac	act	gtc	aca	tca	aaa	atg	ctg	gtt	tcg	gag	aaa	gta	gta	437
138	Arg	Leu	Asn	Thr	Val	Thr	Ser	Lys	Met	Leu	Val		Glu	Lys	Val	Val	
139		125					130					135					
141	aaa	aag	gat	tcg	gag	aaa	aaa	gat	gaa	aag	gat	ttg	gag	aaa -	aaa -	atc	485
142	Lys	Lys	Asp	Ser	Glu		Lys	Asp	Glu	Lys		Leu	GIu	Lys	Lys		
	140					145					150					155	F22
				atg													533
	Leu	Tyr	Thr	Met		Leu	Thr	Tyr	Arg		ьуѕ	Pne	HIS	Leu		Pne	
147					160					165					170		E 0.1
149	agt	cga	gaa	aat	ccg	gaa	aaa	gac	gaa	gaa	gcg	aat	cgg	agu	Turn	Tura	581
	Ser	Arg	GIU	Asn	Pro	GIU	ьуѕ	Asp		GIU	Ala	ASII	Arg	185	ıyı	цур	
151				175					180		~~~	+	~~~		+++	ata	629.
153	TTC	ctg	aag	aat	gcc	Mot	mbr	Cag	Tara	y	7xa	Tur	71 a	Dro	Dha	Val	025.
	Pne	Leu		Asn	vai	Met	1111	195	пуъ	val	Arg	тут	200	FIO	FIIC	Val	
155		~~~	190	att	222	at a	422		aaa	222	aat	+++		tac	gat	aat	677
157	Aac	gag	gay	Ile	Tuc	yta vz1	Cln	Dho	M la	Tare	Aan	Phe	Val	Tyr	Asp	Asn	0,,
159	ASII	205	Giu	116	пур	val	210	LIIC	AIG	цys	11011	215		-1-			
	-a+		a++	ctg	cca	att		gaa	tra	+++	cac		cca	aac	aga	ttc	725
162	Acn	Cor	Tla	Leu	Ara	Wal	Dro	Glu	Ser	Phe	His	Asp	Pro	Asn	Ara	Phe	
	220	DET	116	±¢u.	my	225		-Lu	~ C.L		230				3	235	
		നു മ	tca	tta	gaa		aca	cca	aga	atic		gca	taa	ttt	qaa		773
166	Glu	Gln	Ser	Leu	Glu	Val	Ala	Pro	Ara	Tle	Glu	Ala	Trp	Phe	Glv	Ile	
167	JIU	J111			240				3	245					250		
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170	Tvr	Ile	Glv	Ile	Lvs	Glu	Leu	Phe	Asp	Glv	Glu	Pro	Val	Leu	Asn	Phe	
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RAW SEQUENCE LISTING DATE: 11/10/2004
PATENT APPLICATION: US/09/689,992C TIME: 15:41:19

Input Set : A:\seqlist corr.txt

Output Set: N:\CRF4\11102004\1689992C.raw

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175			270					275					280				
							gtc										917
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179		285					290					295					
							aaa										9,65
182	Arg	Lys	Asp	Leu	Lys	Thr	Lys	Leu	Met	Ala	Gly	Lys	Met	Thr	Ile		
183						305					310					315	
185	caa	gcc	gcg	cgg	cca	aga	att	cga	caa	tta	ttg	gaa	aat	ttg	aag	ctg	1013
186	Gln	Ala	Ala	Arg		Arg	Ile	Arg	Gln		Leu	Glu	Asn	Leu		Leu	
187					320					325					330		
189	aaa	tgc	gca	gaa	gtt	tgg	gat	aac	gaa	atg	tcg	aga	ttg	aca	gaa	cga -	1061
190	Lys	Cys	Ala		Val	Trp	Asp	Asn		Met	Ser	Arg	Leu		Glu	Arg	
191				335					340					345			1100
							ttg										1109
	His	Leu		Phe	Leu	Asp	Leu		Glu	Glu	Asn	Ser		vaı	Tyr	гàг	
195			350					355					360				3157
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	Val		Gly	Lys	Ser	Asp	Arg	GIĀ	Arg	Asn	Ата		га	Tyr	Asp	Tnr	
199		365					370					375		~~~	+++	999	1205
							gag										1205
		Leu	Phe	гуѕ	ше		Glu	GIU	ASI	ьуѕ	ьуs 390	Pne	тте	GIU	Phe	395	
	380				~+~	385	~++	222	a orti			222	an a	tag	aat		1253
							gtt Val										1233
200	птр	ьец	PIO	ьеи	400	цу	vaı	цуз	DCT	405	нια	цув	Olu	- y -	410	Val	
	aa2	ata	~~~	cat		ma a	gtt	cat	gag		cca	caa	aga	tac		aat	1301
							Val										
211	FIO	MCC	Olu	415	пси	014	V (4.1		420		11.0			425	-1 -		
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222	Asp	Phe	Ser	Ser	Glu	Glu	Leu	Asn	Phe	Val	Ğlu	Arg	Phe	Gly	Leu	Cys	
	460					465					470					47 5	
225	tcc	aaa	ctt	cag	atg	atc	gaa	tgt	cca	gga	aag	gtt	ttg	aaa	gag	cca	1493
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227		_			480					485					490		
229	atg	ctt	gtg	aat	agt	gta	aat	gaa	caa	att	aaa	atg	aca	cca	gtg	att	1541
230	Met	Leu	Val	Asn	Ser	Val	Asn	Glu	Gln	Ile	Lys	Met	Thr	Pro	Val	Ile	
231				495					500					505			
233	cgt	gga	ttt	caa	gaa	aaa	caa	ttg	aat	gtg	gtt	CCC	gaa	aaa	gaa	ctt	1589
234	Arg	Gly	Phe	Gln	Glu	Lys	Gln	Leu	Asn	Val	Val	Pro		Lys	Glu	Leu	
235			510					515					520				
237	tgc	tgt	gct	gtt	ttt	gta	gtc	aac	gaa	aca	gcg	gga	aat	cca	tgc	tta	1637

PATENT APPLICATION: US/09/689,992C

DATE: 11/10/2004 TIME: 15:41:19

Input Set : A:\seqlist corr.txt

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238 239	Cys	Cys 525	Ala	Val	Phe	Val	Val 530	Asn	Glu	Thr	Ala	Gly 535	Asn	Pro	Cys	Leu	÷
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															Gly		
		Gru	ASII	Asp	val		цур	FIIC	тут			пец	110	O _T y	Ory	555	
	540					545					550						1 7 2 2
															gcg		1733
246	Lys	Phe	Arg	Gly	Ile	Arg	Ile	Gly	Ala	Asn	Glu	Asn	Arg	GIY	Ala	GIn	
247					560					565					570		
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250	Ser	Ile	Met	Tyr	Asp	Ala	Thr	Lys	Asn	Glu	Tyr	Ala	Phe	Tyr	Lys	Asn	
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254	Cvs	Thr	Leu	Asn	Thr	Glv	Tle	Glv	Ara	Phe	Glu	Ile	Ăla	Āla	Thr	Ğlu	
255	O _I S		590			·-1		595	3				600				
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															Val		20.,
	Ala	_	ASII	Mec	Pile	Giu		пеп	F10	Аър	цуз		GIII	цур	Val	пец	
259		605					610					615					1005
															ttt		1925
		Phe	Ile	Ile	Ile		Lys	Arg	GIn	Leu		Ala	Tyr	GLY	Phe		
	620					625					630					635	
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266	Lys	His	Tyr	Cys	Asp	His	Thr	Ile	Gly	Val	Ala	Asn	Gln	His	Ile	Thr	
267					640					645					650		
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270	Ser	Glu	Thr	Val	Thr	Lys	Ala	Leu	Ala	Ser	Leu	Arg	His	Glu	Lys	${ t Gly}$	
271				655		_			660					665			
273	tca	aaa	cqa	att	ttc	tat	caa	att	qca	ttq	aaa	atc	aac	gcg	aaa	tta	2069
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275		-4-	670			1	-	675			-		680		•		
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															Ile		
	GIY	685	116	ASII	GLII	Giu	690	нор		DCL	OIG	695	1114	014		DCI	
279			~~~		~~~	~~~		222	2.52	2+0	aaa		aat	3+~	tat	att	2165
																	2105
		GIU	GIU	ьуѕ	GIU		Arg	ьуѕ	IIII	мес		ьец	1111	мес	Tyr		
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287					720					725					730		
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290	Ile	Ala	Ala	Val	Val	Ala	Ser	Ile	Asn	Pro	Gly	Gly	Thr	Ile	Tyr	Arg	
291				735					740				1	745			
293	aat	atg	att	gtg	act	caa	gaa	gaa	tgt	cgt	CCC	ggt	gag	cgt	gca	gtg	2309
															Ala		
295			750					755	_	_		_	760				
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298	Δla	Hig	Glv	Ara	Glu	Ara	Thr	Asp	IJe	Leu	Glu	Ala	Lvs	Phe	Val	Lýs	
299	1 . I U	765	- Y	9	a	9	770	~P				775				4	
	++~		200	ann	tta	aas		220	220	asa.	aat		acs	cca	gcg	cat	2405
301	Tax	Ton	aya	gaa	Dho	yca N1-	Clu	A an	Agr	Man	Acr	Ara	Δla	Dro	Ala	His	2100
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RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/09/689,992C

DATE: 11/10/2004 TIME: 15:41:20

Input Set : A:\seqlist corr.txt

Output Set: N:\CRF4\11102004\1689992C.raw

#### Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:8; Xaa Pos. 2,3,4,6,8,9,10,12,13,14,15,16,17,18,19,21,22,23,24,25,26 Seq#:8; Xaa Pos. 29,31,32,33,35,36,37,39,40,41,43,44,45,46,47,49,51,55,56

Seq#:8; Xaa Pos. 59,60,63,64,67,68

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/689,992C

DATE: 11/10/2004 TIME: 15:41:20

Input Set : A:\seqlist corr.txt

Output Set: N:\CRF4\11102004\1689992C.raw

L:794 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!

L:798 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:8

L:799 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0

M:341 Repeated in SeqNo=8